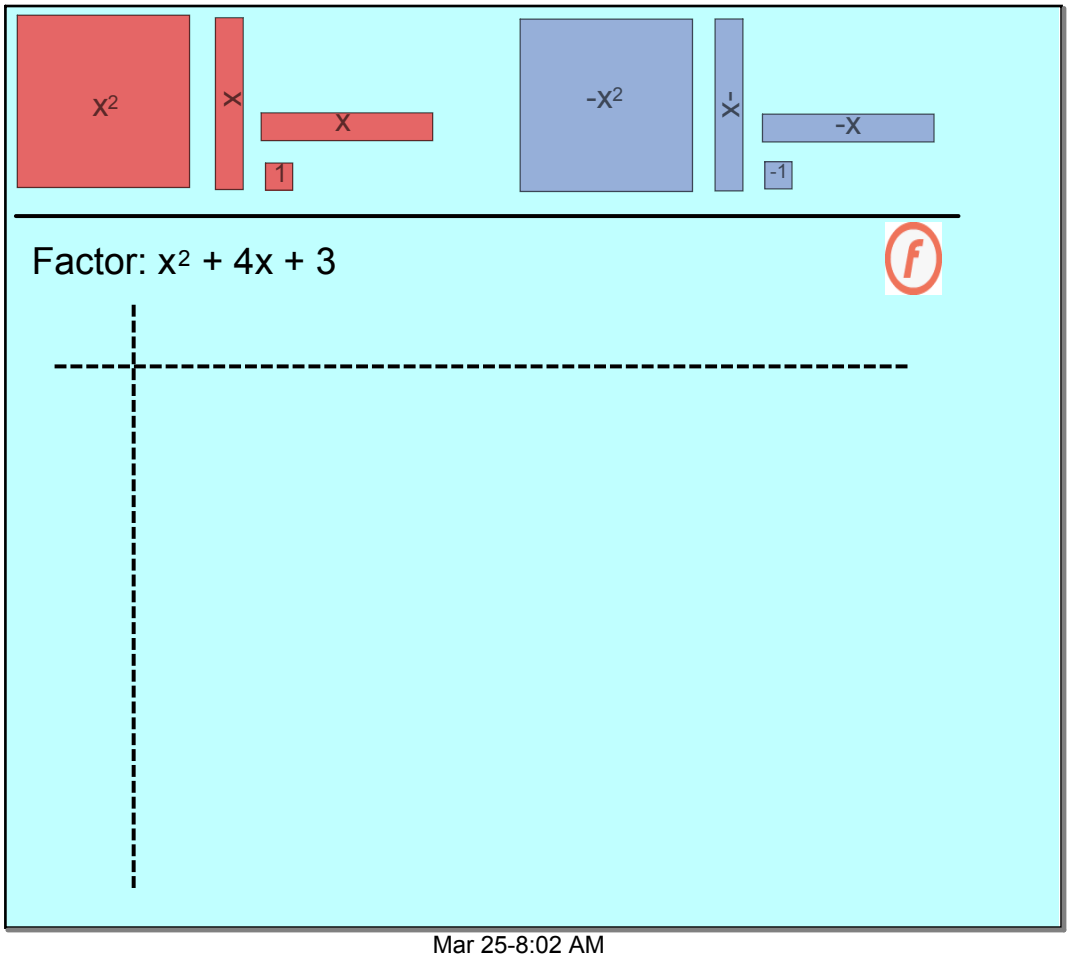
Factoring Simple Quadratic Trinomials in the form $x^2 + bx + c$

1. Using Alge-tiles

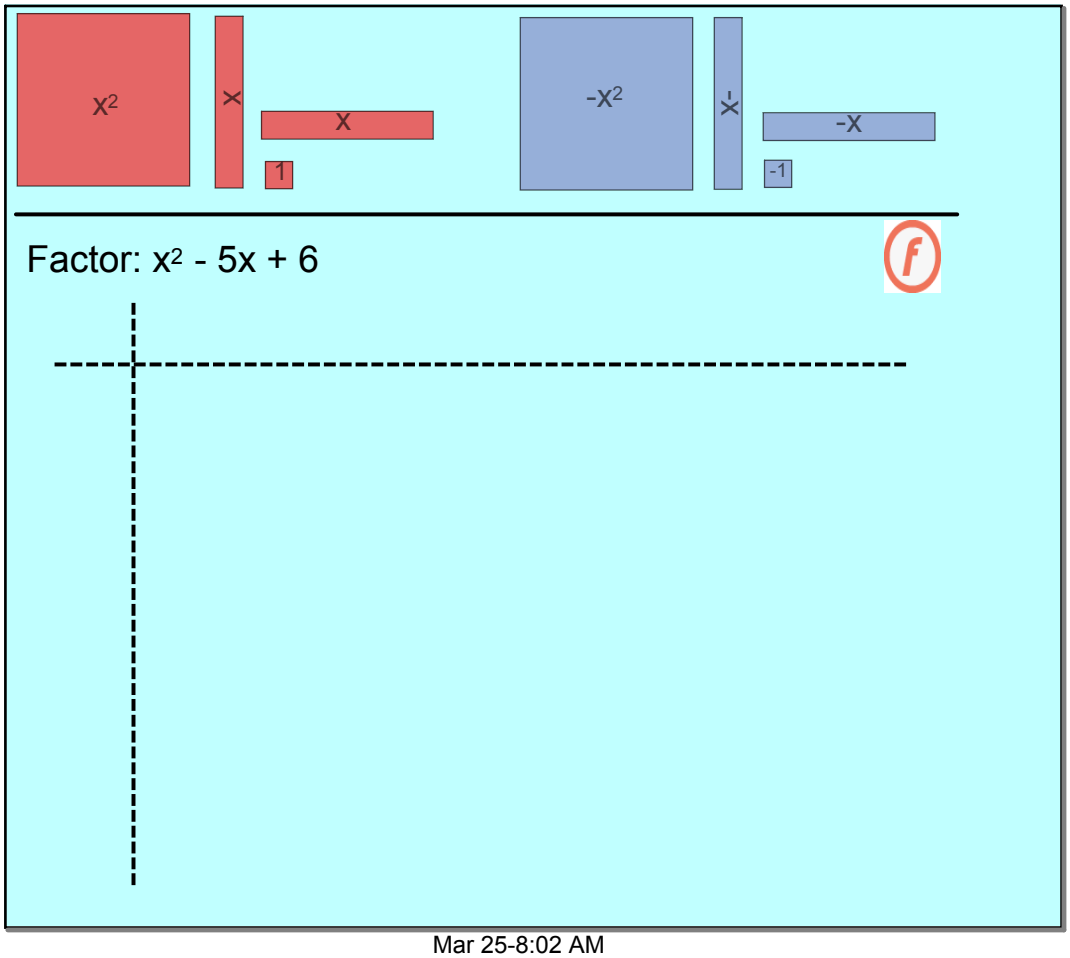
Model the expression as an area. The tiles must form a rectangle (or square).

The lengths of the sides are factors.

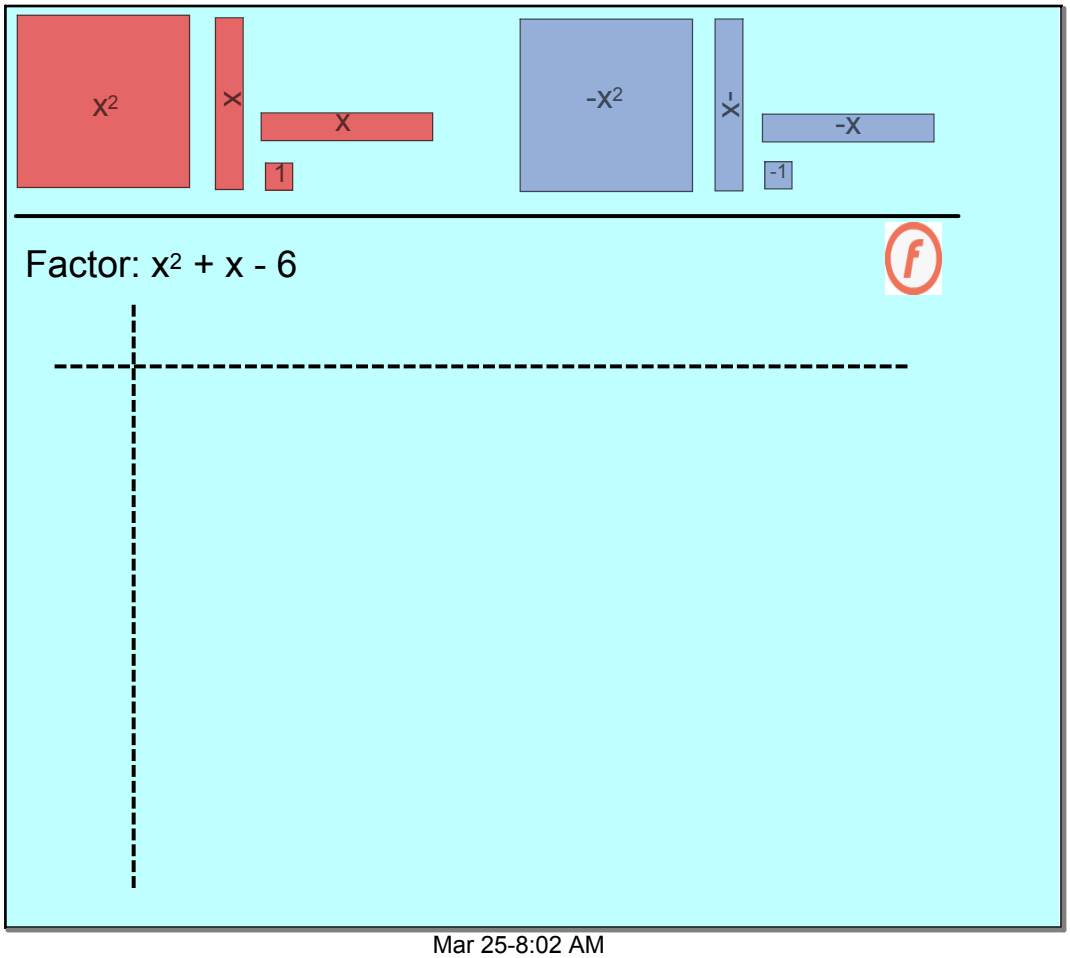
Mar 26-8:24 AM



Mar 25-8:02 AM



Mar 25-8:02 AM



Mar 25-8:02 AM

2. Algebraically

Consider: $(x + 2)(x + 3) = x^2 + 5x + 6$

What relationship is there between the factors and the coefficients of the answer?

$2 + 3 = 5$ $2 \times 3 = 6$

Mar 26-8:24 AM

Ex.1 Factor

(a) $x^2 + 4x + 3$ (b) $x^2 - 8x + 12$

Assigned Work: p.211 # 2, 4; # (6, 7, 8)(ace)
9ace (look for common factors first); # 12ace, 13ac

Mar 30-9:10 PM

Assigned Work:

p.211 # 2, 4
(6, 7, 8)(ace)
9ace (look for common factors first)
12ace, 13ac

Mar 26-9:06 AM